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(21)Application number : 01-161075	(71)Applicant :	NIPPON SEIKO KK
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(54) DYNAMIC PRESSURE BEARING UNIT

(57)Abstract:

PURPOSE: To make the load capacity of the unit in the title larger, compact in its size, and also prevent pollution by oil mist thereby,by constituting an unit in which grooves for dynamic pressure generation for radial and thrust bearings are provided and gas is contained in the radial bearing clearance and lubricant is contained in the thrust bearing clearance.

CONSTITUTION: A radial bearing R having small unit load capacity but having a gas lubricating type groove 33 generating dynamic pressure free from production of environmental contaminants provided in the outside diameter side of a large-diameter cylindrical fixed member 21 so that sufficient load capacity may be provided. On the other hand, a thrust bearing S of large unit load capacity and compact size having a lubricant lubricating type dynamic pressure generating groove 26 is provided at the center of the fixed member 21, this bearing unit is made compact. Oil mist produced on the thrust bearing S by the rotation of a rotating member 30 can be effectively prevented from being spattered outwards by the pressurized gas from the radial bearing R.
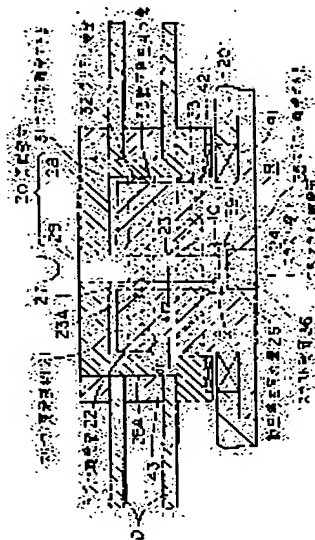
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